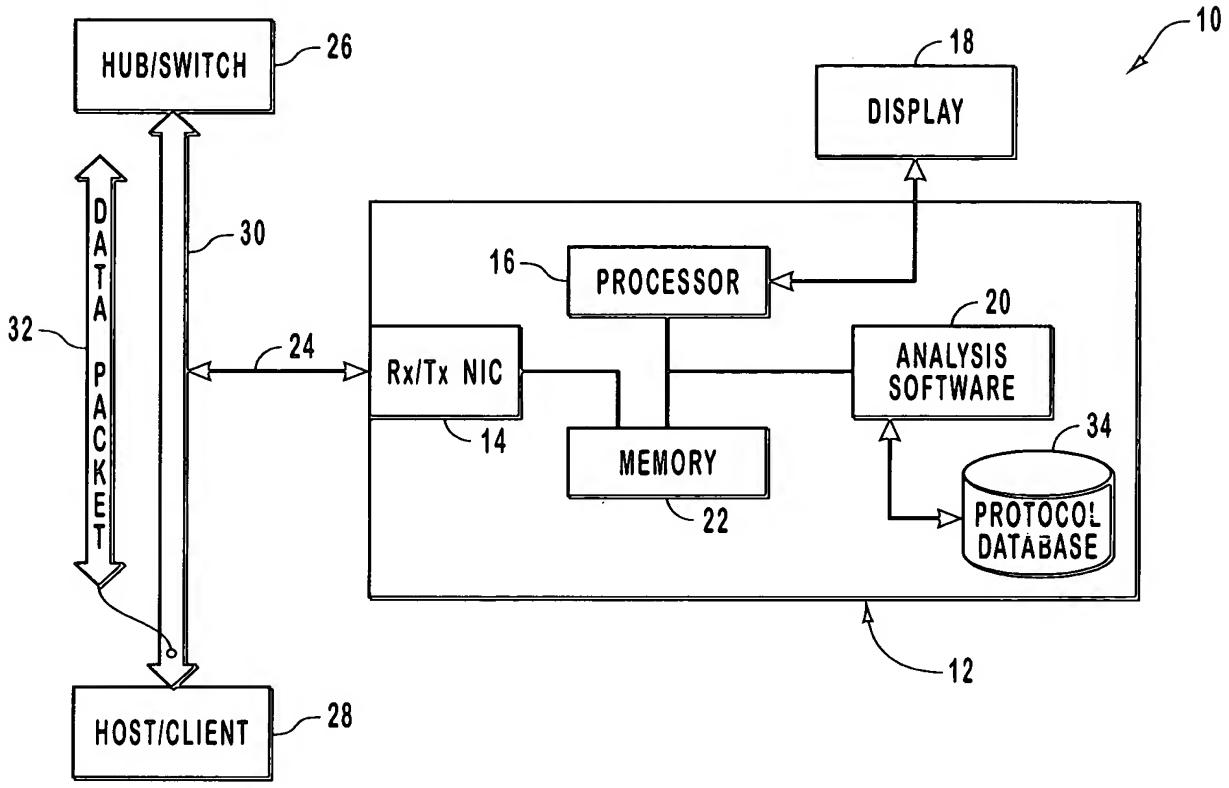
HUB/SWITCH
26
10
18
DISPLAY
DATA PACKET
30
32
16
PROCESSOR
20
24
Rx/Tx NIC
ANALYSIS SOFTWARE
14
34
MEMORY
22
PROTOCOL DATABASE
12
HOST/CLIENT
28

FIG. 1

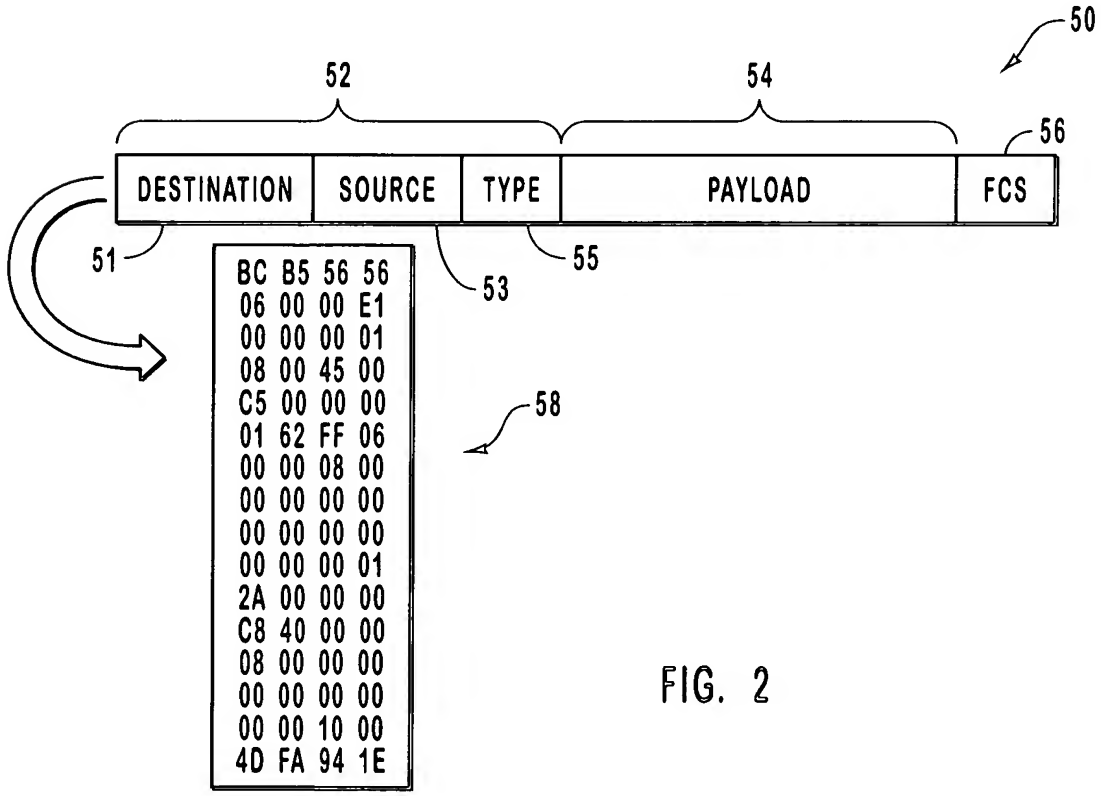
50
52
54
56
DESTINATION
SOURCE
TYPE
PAYLOAD
FCS
51
53
55
BC B5 56 56
06 00 00 E1
00 00 00 01
08 00 45 00
C5 00 00 00
01 62 FF 06
00 00 08 00
00 00 00 00
00 00 00 00
00 00 00 01
2A 00 00 00
C8 40 00 00
08 00 00 00
00 00 00 00
00 00 10 00
4D FA 94 1E
58

FIG. 2

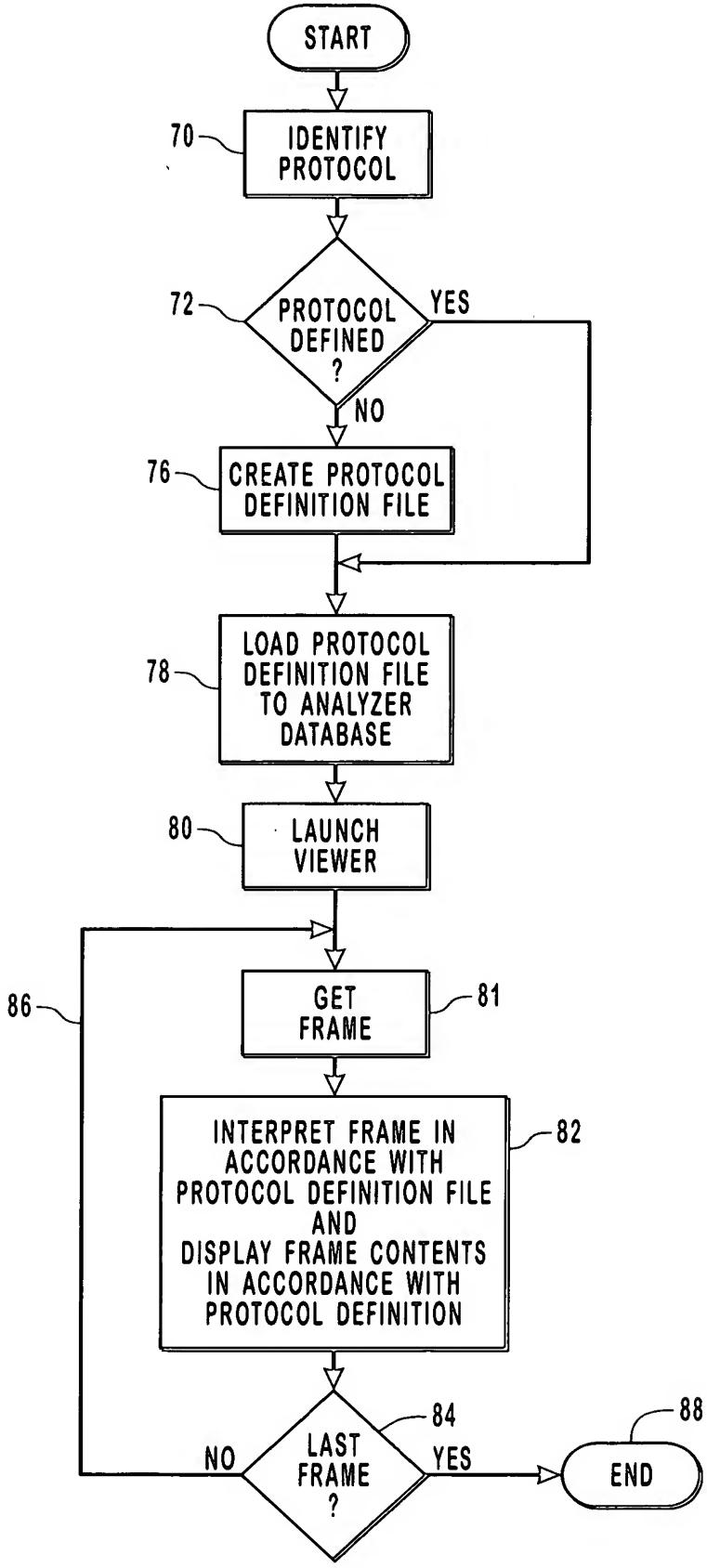

FIG. 3A

E04207 454F00T

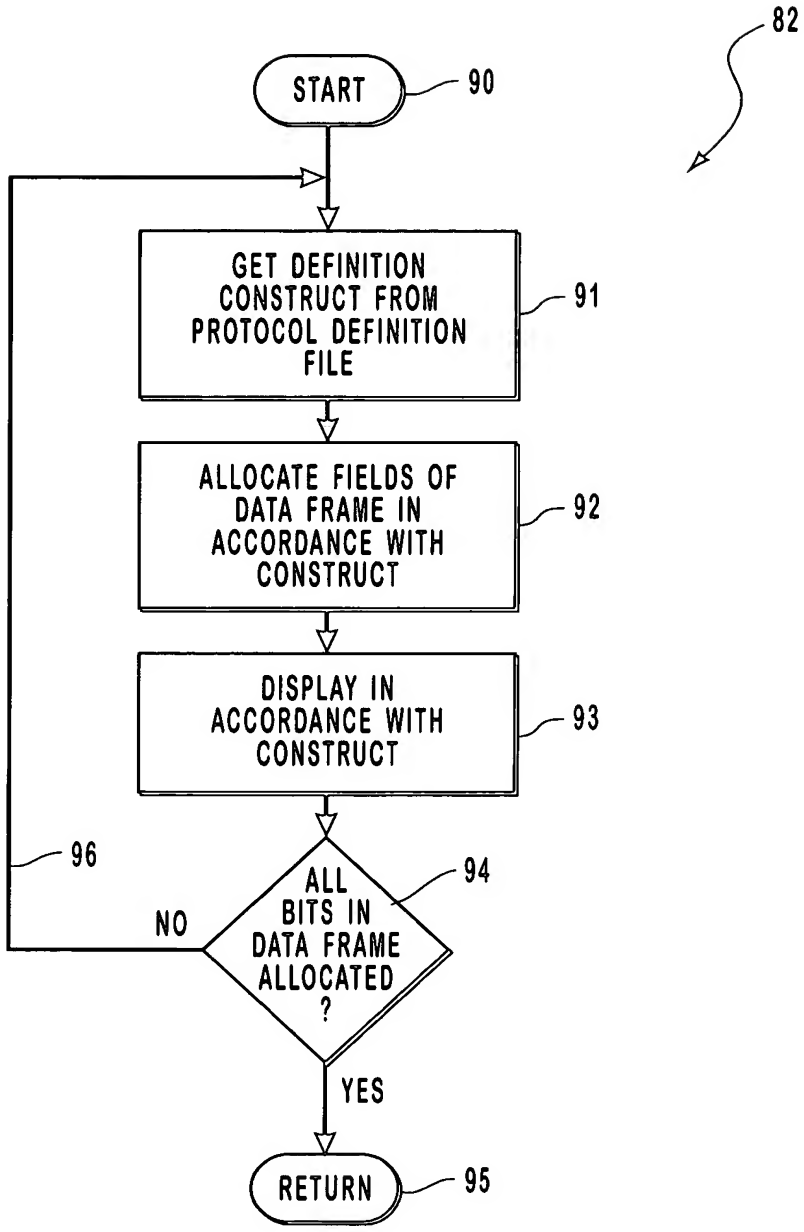

FIG. 3B

Petitioner - Exhibit 1004, p. 45

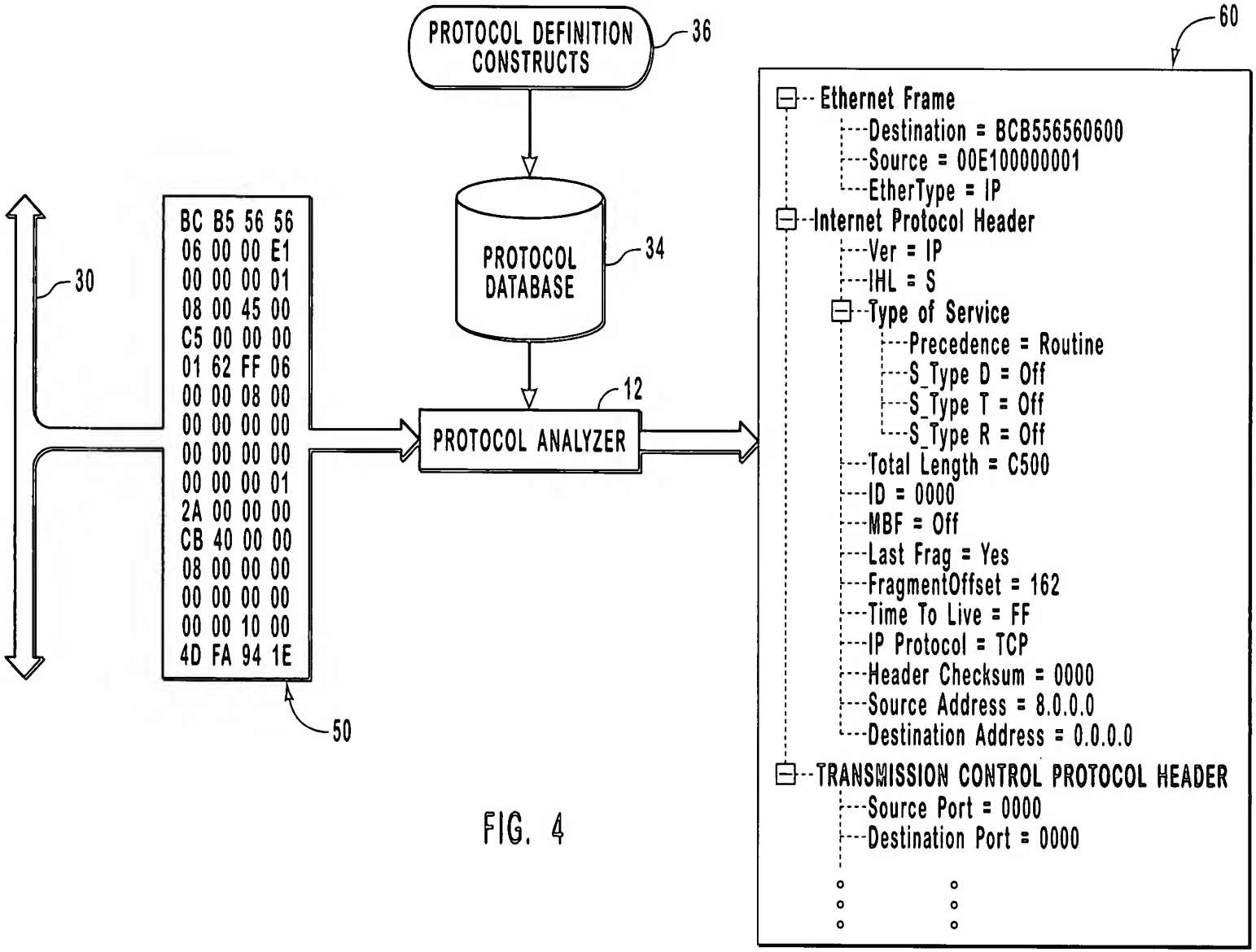
PROTOCOL DEFINITION CONSTRUCTS
36
60
PROTOCOL DATABASE
34
30
BC B5 56 56
06 00 00 E1
00 00 00 01
08 00 45 00
C5 00 00 00
01 62 FF 06
00 00 08 00
00 00 00 00
00 00 00 00
00 00 00 01
2A 00 00 00
CB 40 00 00
08 00 00 00
00 00 00 00
00 00 10 00
4D FA 94 1E
12
PROTOCOL ANALYZER
50
Ethernet Frame
Destination = BCB556560600
Source = 00E100000001
EtherType = IP
Internet Protocol Header
Ver = IP
IHL = S
Type of Service
Precedence = Routine
S_Type D = Off
S_Type T = Off
S_Type R = Off
Total Length = C500
ID = 0000
MBF = Off
Last Frag = Yes
FragmentOffset = 162
Time To Live = FF
IP Protocol = TCP
Header Checksum = 0000
Source Address = 8.0.0.0
Destination Address = 0.0.0.0
TRANSMISSION CONTROL PROTOCOL HEADER
Source Port = 0000
Destination Port = 0000

FIG. 4

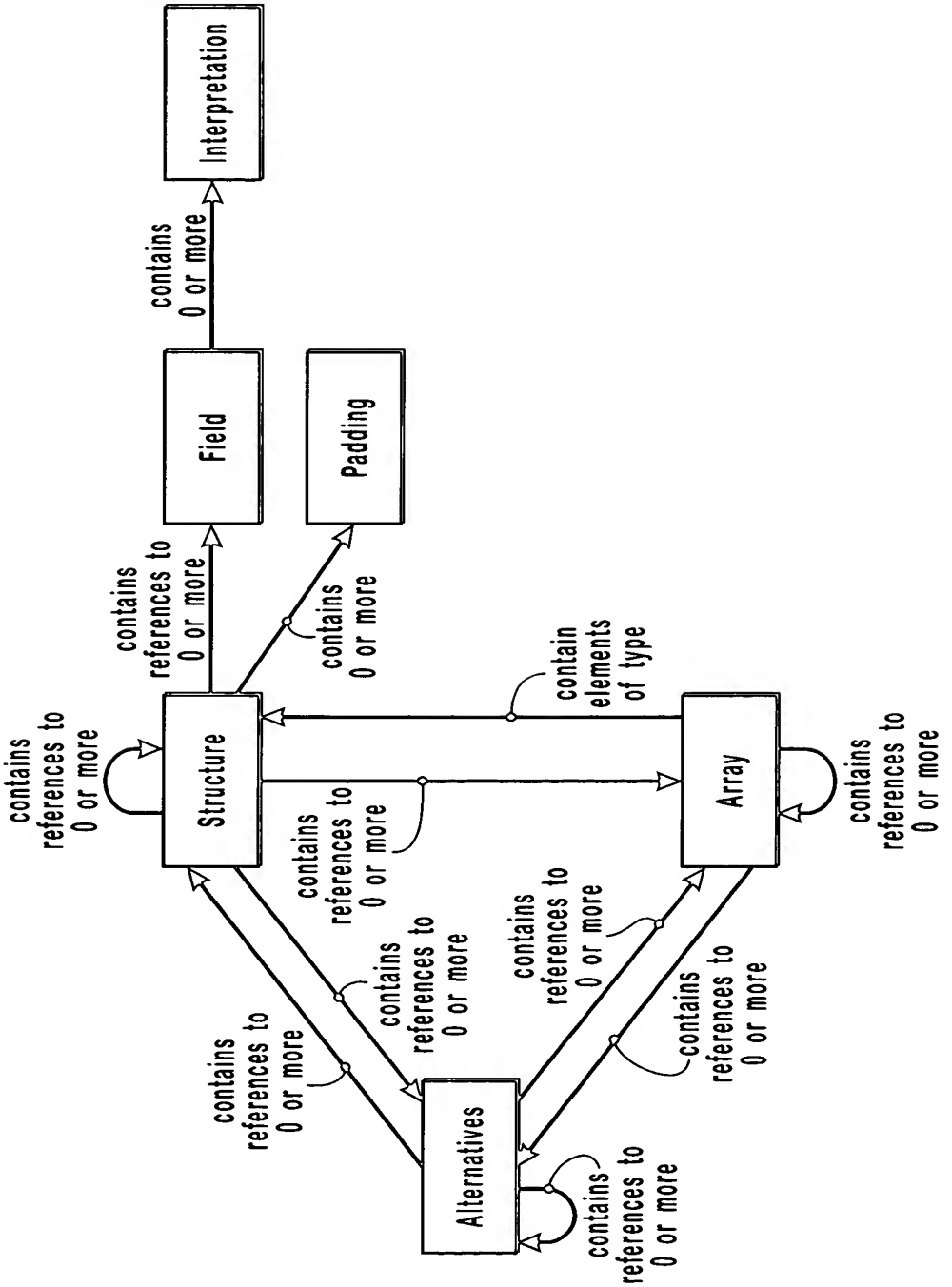
Interpretation
contains 0 or more
Field
Padding
contains references to 0 or more
contains 0 or more
contains references to 0 or more
Structure
contain elements of type
Array
contains references to 0 or more
contains references to 0 or more
contains references to 0 or more
contains references to 0 or more
contains references to 0 or more
contains references to 0 or more
Alternatives
contains references to 0 or more

FIG. 5

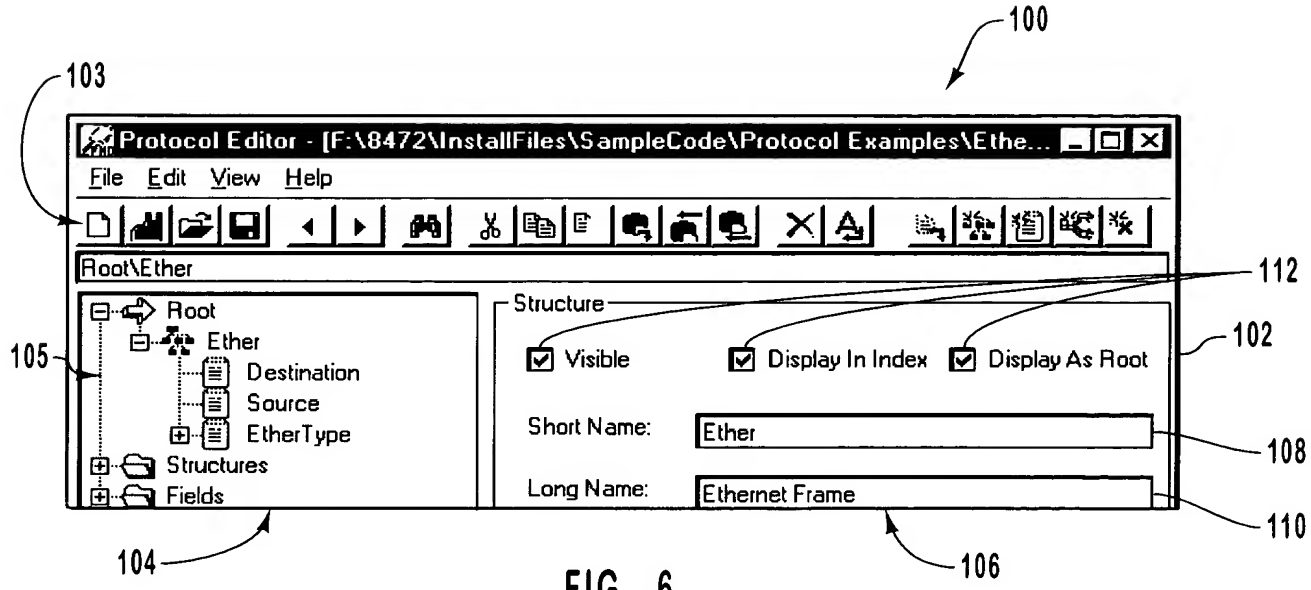
100
103
Protocol Editor - [F:\8472\InstallFiles\SampleCode\Protocol Examples\Ethe...
File Edit View Help
Root\Ether
Root
Ether
Destination
Source
EtherType
Structures
Fields
105
Structure
Visible
Display In Index
Display As Root
112
102
Short Name:
Ether
108
Long Name:
Ethernet Frame
110
104
106

FIG. 6

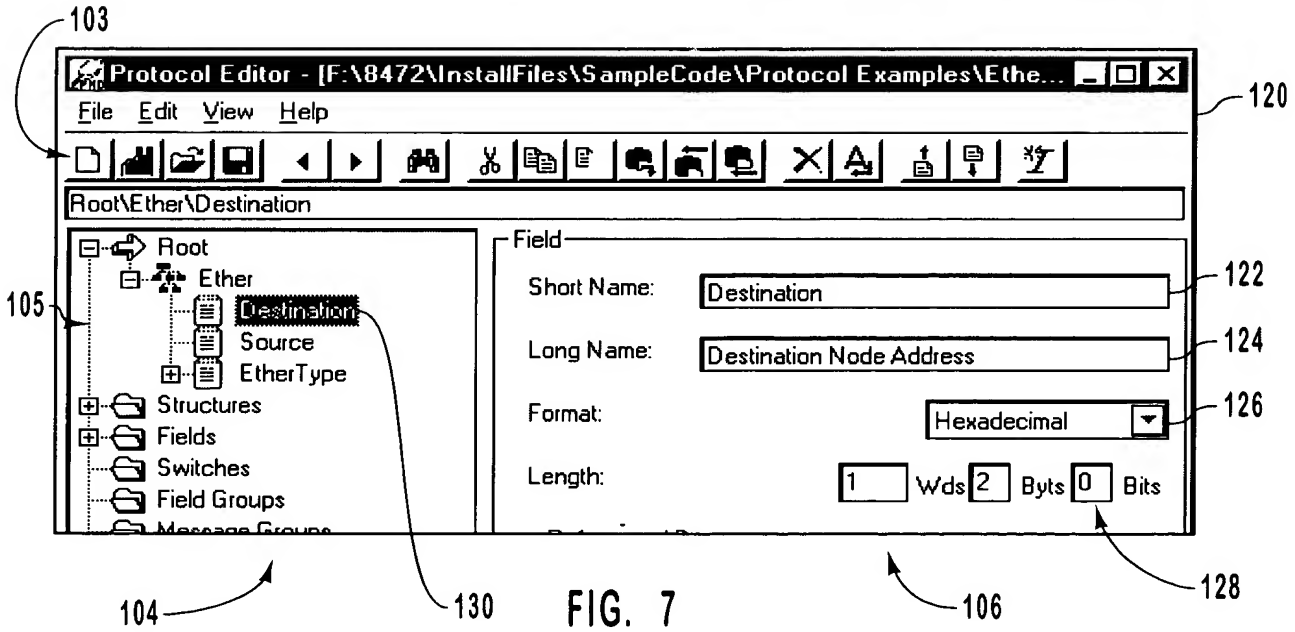
103
Protocol Editor - [F:\8472\InstallFiles\SampleCode\Protocol Examples\Ethe...
120
File Edit View Help
Root\Ether\Destination
Root
Ether
Destination
Source
EtherType
Structures
Fields
Switches
Field Groups
105
Field
Short Name:
Destination
122
Long Name:
Destination Node Address
124
Format:
Hexadecimal
126
Length:
1 Wds 2 Byts 0 Bits
104
130
106
128

FIG. 7

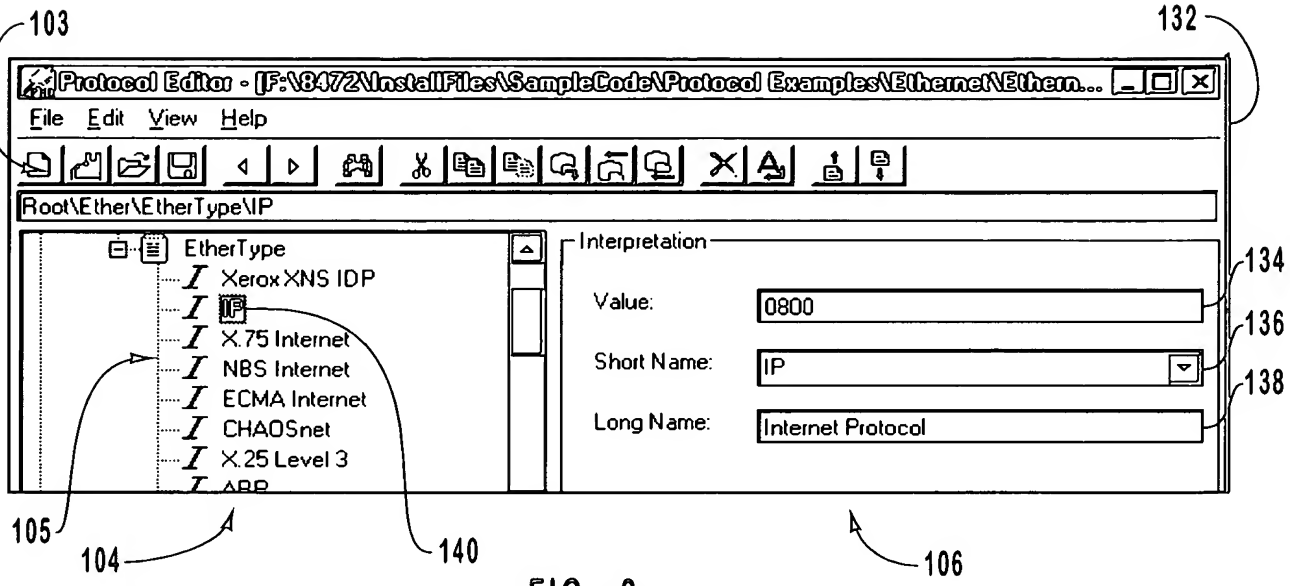
103
132
Protocol Editor - [F:\8472\InstallFiles\SampleCode\Protocol Examples\Ethernet\Ethern...
File Edit View Help
Root\Ether\EtherType\IP
EtherType
Xerox XNS IDP
IP
X.75 Internet
NBS Internet
ECMA Internet
CHAOSnet
X.25 Level 3
ARP
Interpretation
Value: 0800
Short Name: IP
Long Name: Internet Protocol
134
136
138
105
104
140
106

FIG. 8

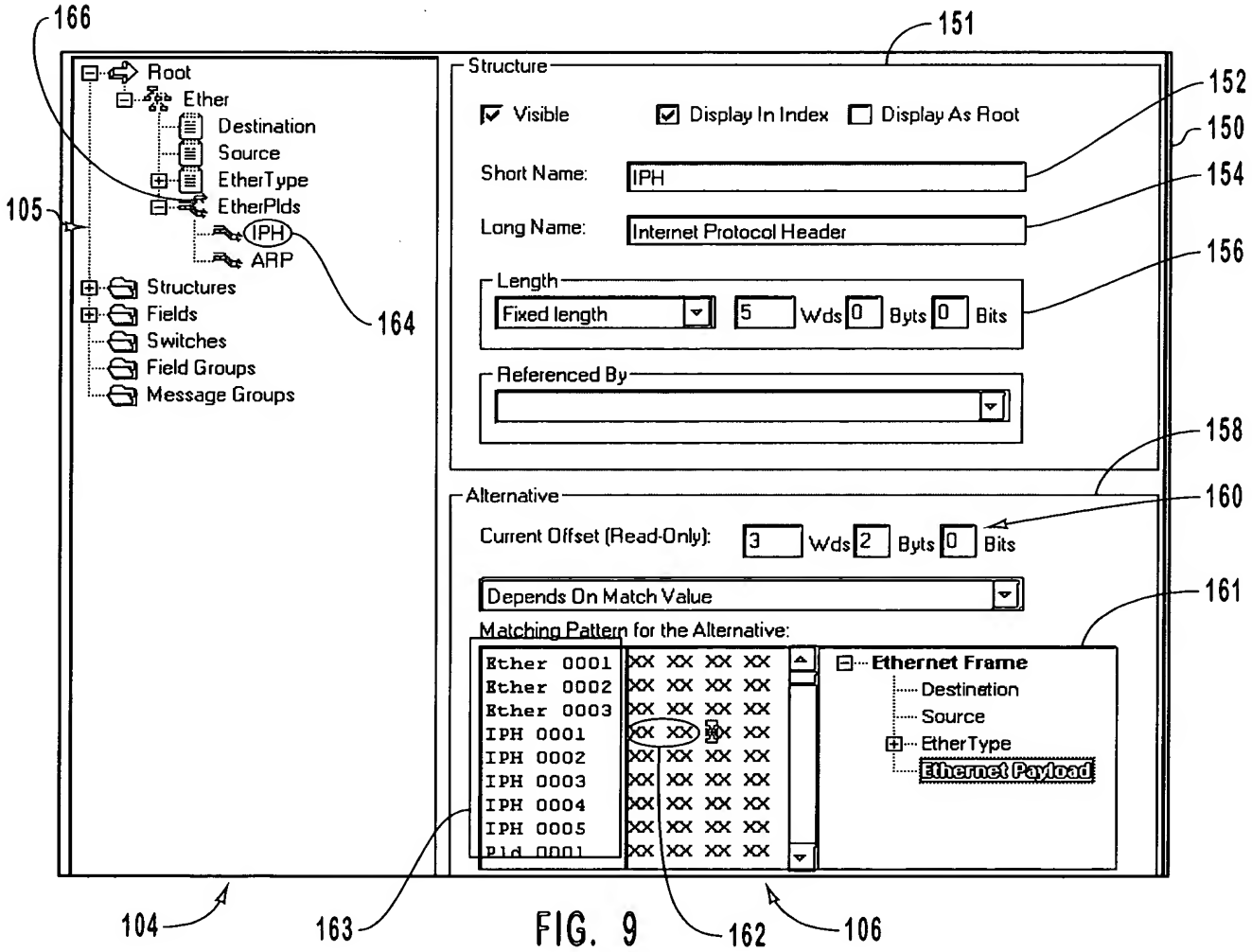
166
151
Root
Ether
Destination
Source
EtherType
EtherPlds
IPH
ARP
Structures
Fields
Switches
Field Groups
Message Groups
105
164
Structure
Visible
Display In Index
Display As Root
Short Name: IPH
Long Name: Internet Protocol Header
Length
Fixed length
5 Wds 0 Byts 0 Bits
Referenced By
152
150
154
156
158
Alternative
Current Offset (Read-Only): 3 Wds 2 Byts 0 Bits
Depends On Match Value
Matching Pattern for the Alternative:
Ether 0001
Ether 0002
Ether 0003
IPH 0001
IPH 0002
IPH 0003
IPH 0004
IPH 0005
Pld 0001
XX XX XX XX
Ethernet Frame
Destination
Source
EtherType
Ethernet Payload
160
161
104
163
162
106

FIG. 9

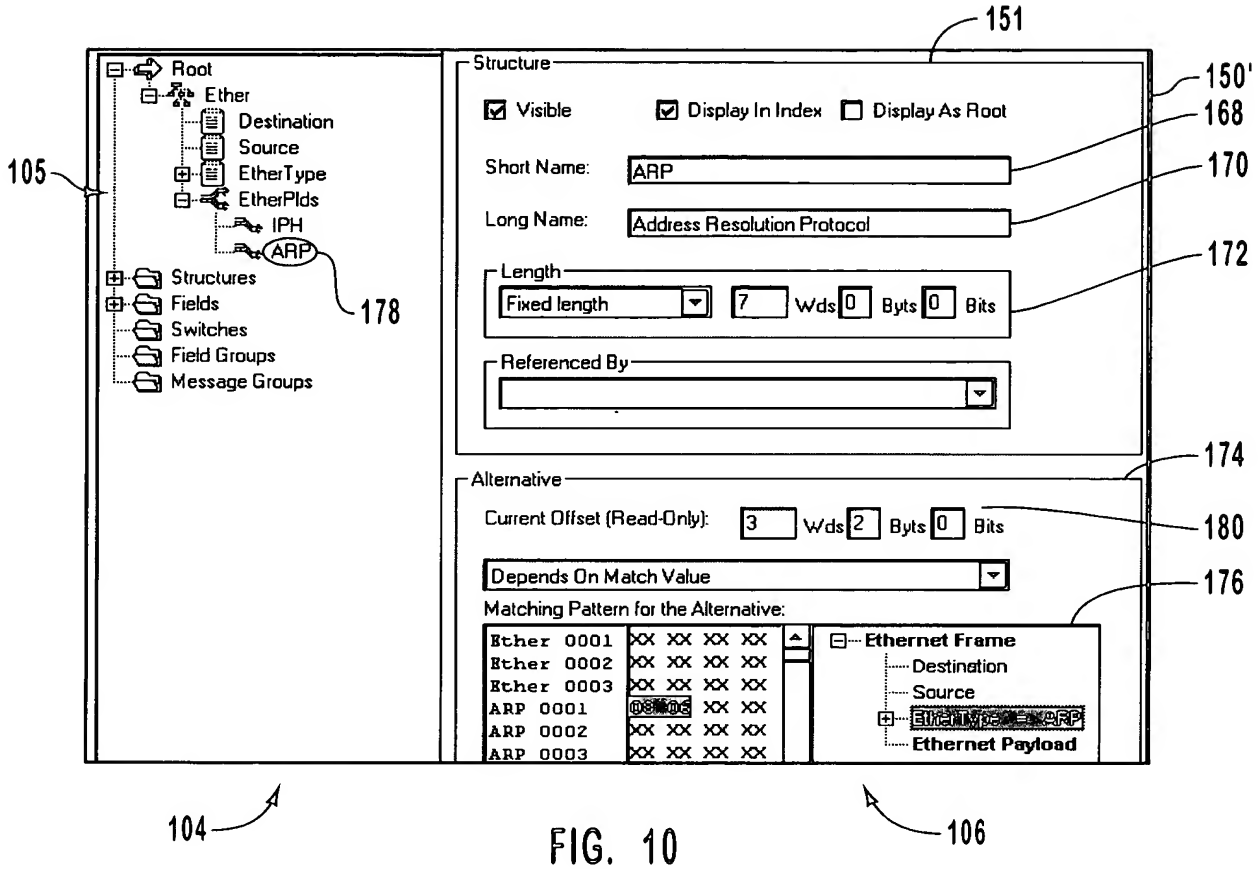

FIG. 10

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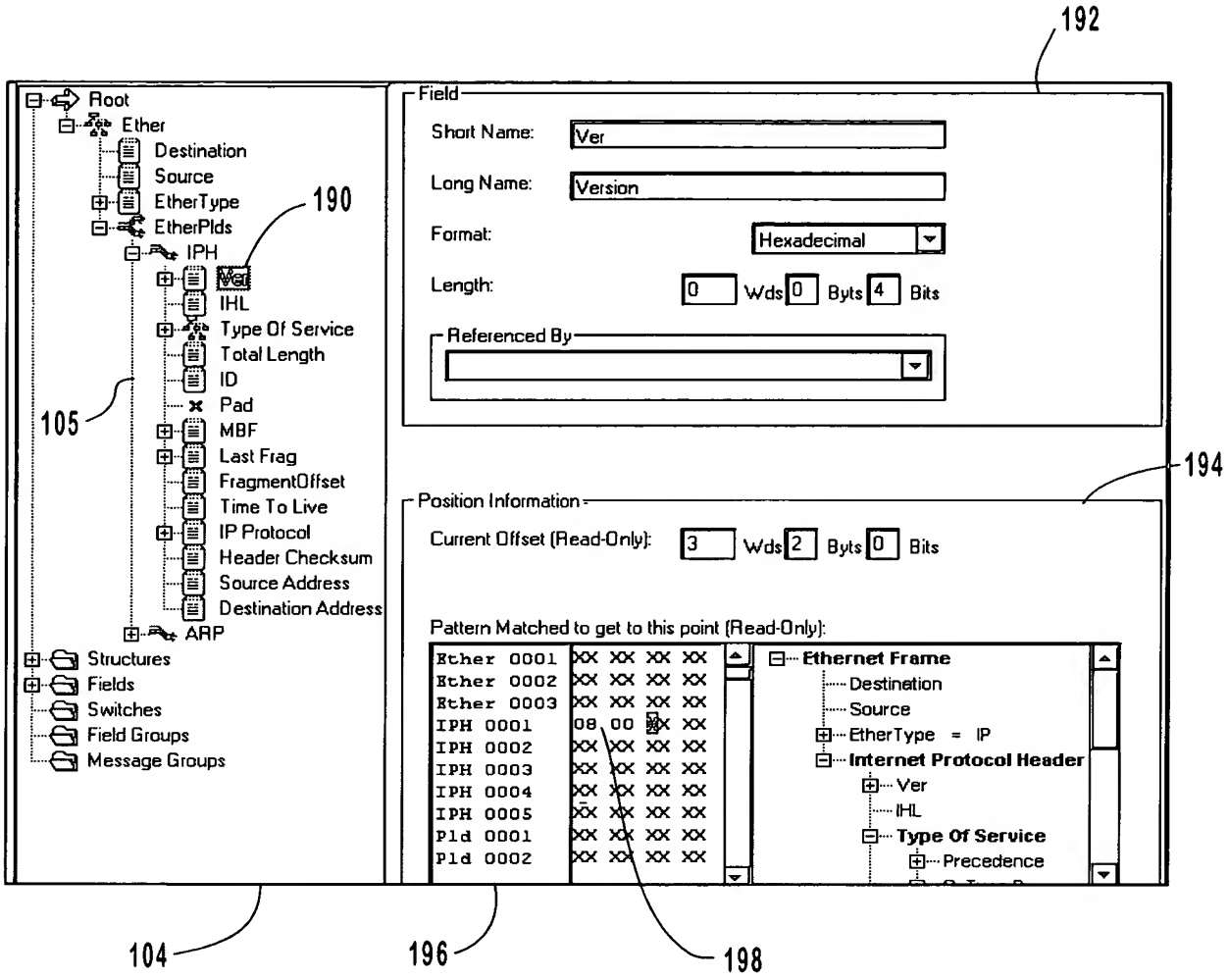

FIG. 11

4,005,474 - 4,005,474

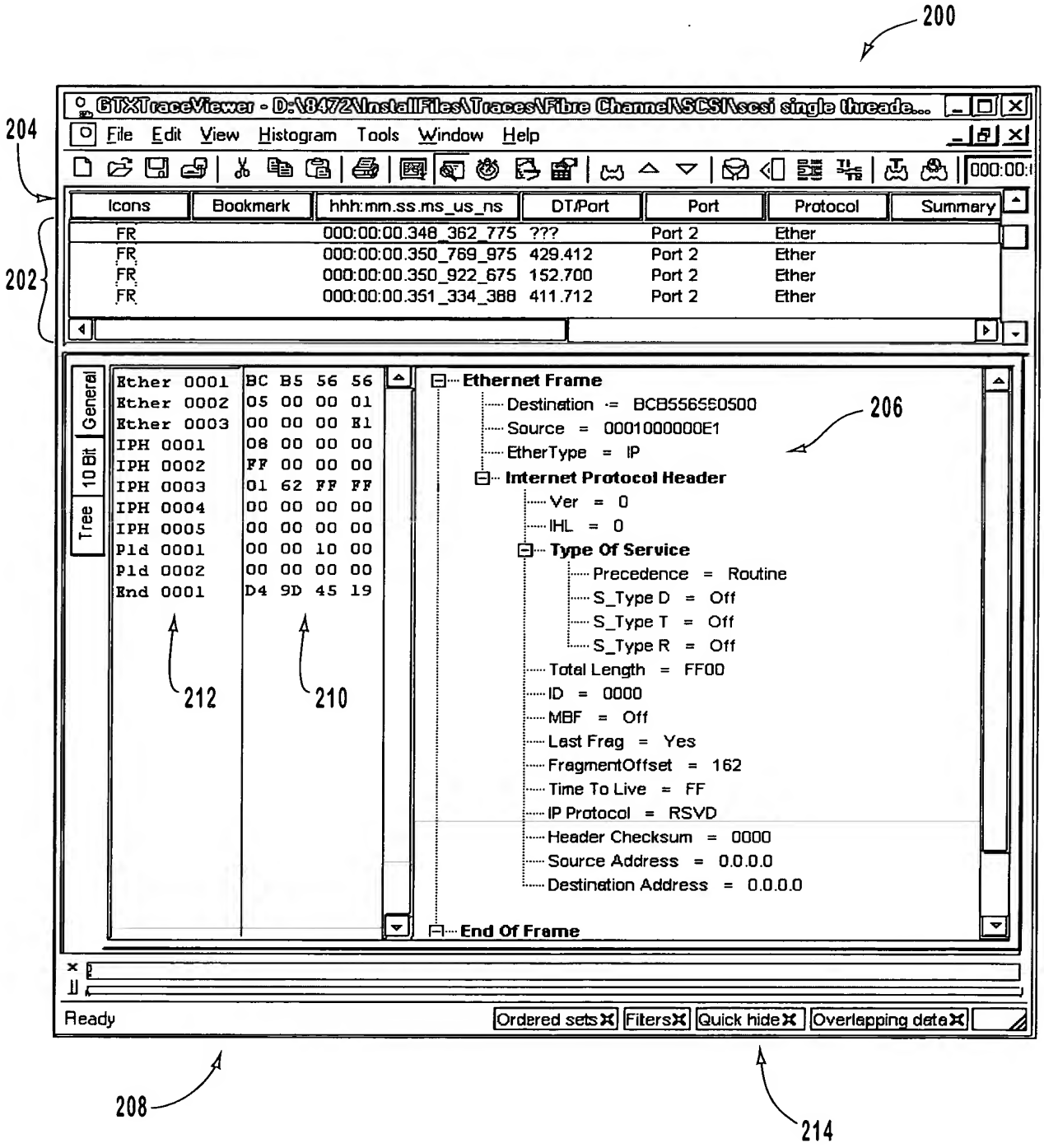
200
204
202
206
212
210
208
214
GTXTraceViewer - D:\8472\InstallFiles\Traces\Fibre Channel\SCSI\scsi single threade...
File Edit View Histogram Tools Window Help
Icons
Bookmark
hhh:mm.ss.ms_us_ns
DT/Port
Port
Protocol
Summary
FR 000:00:00.348_362_775 ??? Port 2 Ether
FR 000:00:00.350_769_975 429.412 Port 2 Ether
FR 000:00:00.350_922_675 152.700 Port 2 Ether
FR 000:00:00.351_334_388 411.712 Port 2 Ether
General
10 Bit
Tree
Ether 0001 BC B5 56 56
Ether 0002 05 00 00 01
Ether 0003 00 00 00 E1
IPH 0001 08 00 00 00
IPH 0002 FF 00 00 00
IPH 0003 01 62 FF FF
IPH 0004 00 00 00 00
IPH 0005 00 00 00 00
Pld 0001 00 00 10 00
Pld 0002 00 00 00 00
End 0001 D4 9D 45 19
Ethernet Frame
Destination = BCB556550500
Source = 0001000000E1
EtherType = IP
Internet Protocol Header
Ver = 0
IHL = 0
Type Of Service
Precedence = Routine
S_Type D = Off
S_Type T = Off
S_Type R = Off
Total Length = FF00
ID = 0000
MBF = Off
Last Frag = Yes
FragmentOffset = 162
Time To Live = FF
IP Protocol = RSVD
Header Checksum = 0000
Source Address = 0.0.0.0
Destination Address = 0.0.0.0
End Of Frame
Ready
Ordered sets
Filters
Quick hide
Overlapping data

FIG. 12

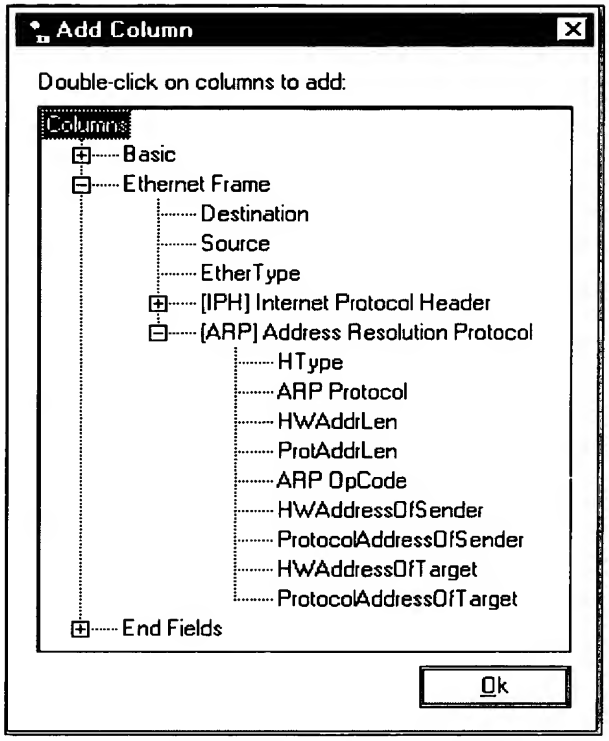

FIG. 13

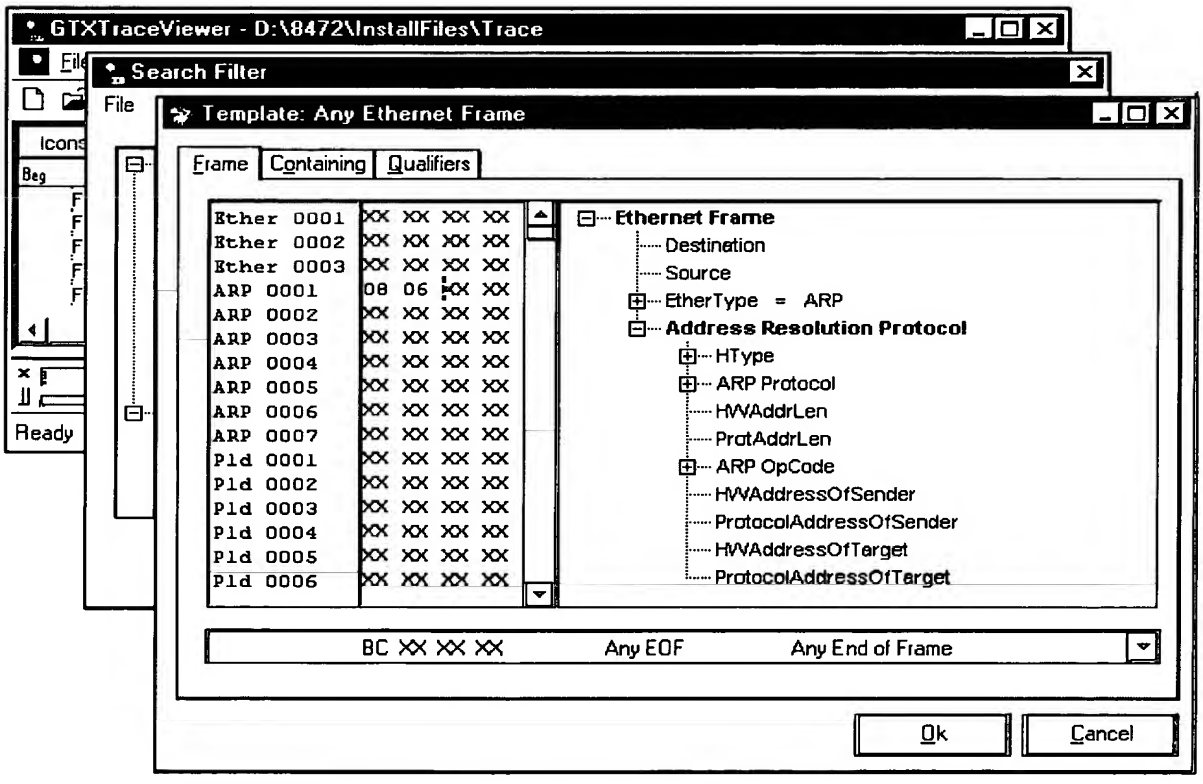

FIG. 14

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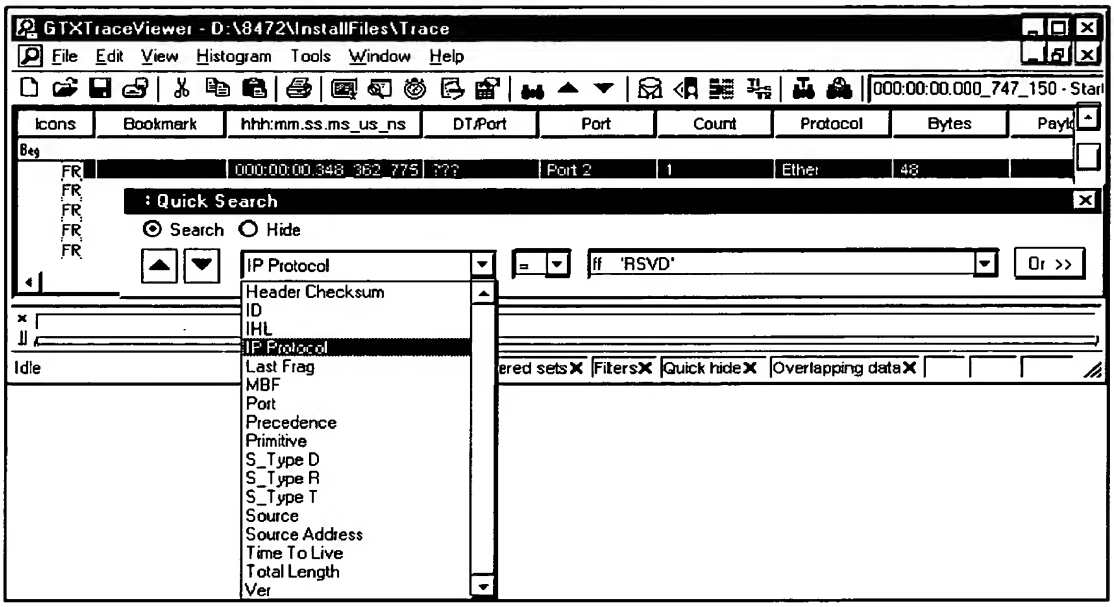

FIG. 15

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